**PATENT** 

DOCKET NO.: LCTD-0035



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Tina-Liisa Rasanen, et al. Confirmation No.: Not Yet Assigned

Application No.: 10/731,626 Group Art Unit: Not Yet Assigned

Filing Date: December 9, 2003 Examiner: Not Yet Assigned

For: METHODS FOR THE TREATMENT AND PREVENTION OF

PANCREATITIS AND FOR INDUCTION OF LIVER REGENERATION

DATE OF DEPOSIT: Warch 25, 2004

I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID, ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE UNITED STATES PATENT AND TRADEMARK OFFICE, P.O. BOX 1450, ALEXANDRIA,

TYPED NAME: Elizabeth A. McLoud

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

## INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).

In accordance with § 1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of

the above identified application as set forth in § 1.491, before the mailing date

	of a first Office	Action on the merits of the above-identified application, or		
	before the mailing date of a first Office Action after the filing of request for			
	continued examination under § 1.114, no additional fee is required.			
	In accordance with § 1.129(a), this Information Disclosure Statement is being			
	filed in connection with  the first or  second After Final Submission			
	therefore:			
		ertification in Accordance with § 1.97(e) is attached; or		
	Т	he fee of \$180.00 as set forth in § 1.17(p) is attached.		
	In accordance w	vith § 1.97(c), this Information Disclosure Statement is being		
	filed after the period set forth in § 1.97(b) above but before the mailing date or			
	either a Final Action under § 1.113 or a Notice of Allowance under § 1.311, or			
	before an action	that otherwise closes prosecution in the application, therefore:		
		Certification in Accordance with § 1.97(e) is attached;		
		or		
		The fee of \$180.00 as set forth in § 1.17(p) is attached.		
	In accordance with § 1.97(d), this Information Disclosure Statement is being			
	filed after the mailing date of either a Final Action under § 1.113 or a Notice			
	of Allowance under § 1.311 but before, or simultaneously with, the paymen			
	of the Issue Fee, therefore included are: Certification in Accordance with §			
	1.97(e); and the submission fee of <u>\$180.00</u> as set forth in § 1.17(p).			
	Copies of each of the references listed on the attached Form PTO-1449 are			
	enclosed herewith.			

CKET N	O.: LC	CTD-0035 - 3 -	<b>PATENT</b>
$\boxtimes$	Copie	es of references listed on the attached Form PTO-1449	are enclosed
	herew	vith	
. $\square$	Copies of references listed on the attached Form PTO 1449 are not required to		
	be su	bmitted pursuant to the June 30, 2003 recent revisions	to 37 CFR §
	1.98(a	a)(2)(i).	
	EXC	EPT THAT:	
	$\boxtimes$	In view of the voluminous nature of references 7 an	d 28, and the
		likelihood that these references are available to the Ex-	aminer, copies
		are not enclosed herewith.	
		In accordance with § 1.98(d), copies of the following re-	ferences listed
		on the attached Form PTO-1449 are not enclosed her	ewith because
		they were previously cited by or submitted to the U.	S. Patent and
		Trademark Office in patent application(s) for which a cla	im for priority
		under 35 U.S.C.§ 120 have been made in the instant appl	ication:
		Copies of references [list as appropriate]	listed on the
		attached Form PTO-1449 were previously cited b	y or submitted
		to the Patent and Trademark Office in prior A	pplication No.
		. filed	

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050. This form is submitted in duplicate.

□ The relevance of those listed references which are not in the English language is as follows:
 □ There are no listed references which are not in the English language.
 □ Date: March 25, 2004
 □ Tara L. Rachinsky Registration No. 47,875

WOODCOCK WASHBURN LLP One Liberty Place - 46th Floor Philadelphia, PA 19103 Telephone: (215) 568-3100 Facsimile: (215) 568-3439

**DOCKET NO.: LCTD-0035** 

© 2004 WW

**PATENT** 

Form PTO-1449 Modified  List of Patent and Publications Cited by Applicant (Use several sheets if necessary)	Docket No. LCTD-0035  Applicant Tiina-Liisa Räsäne	Application No. 10/731,626	
Cited by Applicant (Use several sheets if necessary)	Tiina-Liisa Räsän	. 1	
i		en, et al.	
U.S. Department of Commerce Patent and Trademark Office	Filing Date December 9, 2003	Group Not Yet Assigned	
	Confirmation No. Not Yet Assigned		
OTHER DOCUMENTS (Includi	ing Author, Title,	Date, Pertinent Pages, Etc.)	
1 Alhonen, L., et al., "Polyamines are required for the initiation of rat liver regeneration," <i>Biochem. J.</i> , <b>2002</b> , <i>362</i> , 149-153			
	Alhonen, L., et al., "Activation of polyamine catabolism in transgenic rats induces acute pancreatitis," J. Proc. Natl. Acad. Sci. USA, July 18, 2000, 97(15), 8290-8295		
	Bernacki, R.J., et al., "Antitumor activity of N,N'-Bis(ethyl)spermine homologues against human MALME-3 melanoma xenografts," Cancer Res., May 1, 1992, 52,		
$N^{1}N^{1}$ -diethylnorspermine	Bernacki, R.J., et al., "Preclinical antitumor efficacy of the polyamine analogue $N^1 \cdot N^{11}$ -diethylnorspermine administered by multiple injection or continuous infusion," Clin. Cancer Res., August 1995, I, 847-848		
5 Bolkenius, F.N., et al., "S	Bolkenius, F.N., et al., "Specific inhibition of polyamine oxidase in vivo is a method for the elucidation of its physiological role," <i>Biochim. Biophys. Acta</i> , 1985, 838,		
[	Casero, R.A., et al., "Spermidine/spermine N1-acetyltransferase – the turning point in polyamine metabolism," <i>FASEB J.</i> , <b>1993</b> , 7, 653-661		
* 7 Greene, T.W., et al., P.G.l & Sons, 1999	Greene, T.W., et al., P.G.M., Protective Groups in Organic Synthesis, 3 <sup>rd</sup> Ed., Wiley		
stimulation of late sperma ornithine decarboxylase g	stimulation of late spermatogonia in transgenic mice overexpressing the human ornithine decarboxylase gene," <i>Mol. Endocrinol.</i> , 1993, 7, 1430-1436		
	Halmekytö, M., et al., "Transgenic mice over-producing putrescine in their tissues do not convert the diamine into higher polyamines," <i>Biochem. J.</i> , <b>1993</b> , <i>291</i> , 505-508		
10 Halmekytö, M., et al., "Tr			
EXAMINER	DATE	CONSIDERED	

<sup>\*</sup> A copy of this reference will not be forwarded to the U.S. Patent and Trademark Office since it is believed to be too voluminous and easily obtainable by the Examiner.



Form PTO-1449 Modified  List of Patent and Publications Cited by Applicant (Use several sheets if necessary)		Docket No. LCTD-0035	Application No. 10/731,626
		Applicant Tiina-Liisa Räsänen, et al.	
	U.S. Department of Commerce Patent and Trademark Office		Group Not Yet Assigned
		Confirmation No. Not Yet Assigned	
ОТНЕ	R DOCUMENTS (Includ	ling Author, Title, Dat	e, Pertinent Pages, Etc.)
11	Higgins, G.H., et al., "Experimental pathology of the liver," Arch. of Pathol., Janua 20, 1931, 12, 186-202		
12	· · · · · · · · · · · · · · · · · · ·		
13			
14			
15	Jacobs, M.L., et al., "Acute pancreatitis: Analysis of factors influencing survival,"  Ann. Surg., 1977, 185, 43-51		
16	Jänne, J., et al., "Polyamines: from molecular biology to clinical applications," Ann. Of Med., 1991, 23, 241-259		
17	Jänne, J., et al., "On the purification of L-ornithine decarboxylase from rat prostate and effects of thiol compounds on the enzyme," J. Biol. Chem., March 25, 1971, 246(6), 1725-1732		
18	Tetrahedron, 1996, 52(43), 13751-13766		
19			
20	Lakanen, J.R., et al., "α-Methyl polyamines: metabolically stable spermidine and spermine mimics capable of supporting growth in cells depleted of polyamines," J. Med. Chem., 1992, 35, 724-734		
EXAMINER	EXAMINER DATE CONSIDERED		





Form PT	O-1449 Modified	Docket No. LCTD-0035	Application No. 10/731,626	
Cited	ent and Publications by Applicant sheets if necessary)	Applicant Tiina-Liisa Räsänen, et al.		
	tment of Commerce Trademark Office	Filing Date December 9, 2003	Group Not Yet Assigned	
		Confirmation No. Not Yet Assigned		
ОТНІ	ER DOCUMENTS (Includ	ling Author, Title, Da	ate, Pertinent Pages, Etc.)	
2	1992, 27 (Suppl. 192), 29	9-38	e pancreatitis," Scan J. Gastroenterol,	
2:	· · · · · · · · · · · · · · · · · · ·			
2:				
24	Nagarajan, S., et al., "Chemistry of naturally occurring polyamines. 10. Nonmetabolizable derivatives of spermine and spermidine," <i>J. Org. Chem.</i> , <b>1986</b> , 51, 4856-4861			
2.5				
20				
2*				
* 28	<u> </u>			
29	Steinberg, W., et al., "Acute pancreatitis," N. Eng. J. Med., April 28, 1994, 330, 1198-1210			
36				
EXAMINER			ONSIDERED	

<sup>\*</sup> A copy of this reference will not be forwarded to the U.S. Patent and Trademark Office since it is believed to be too voluminous and easily obtainable by the Examiner.





Form P1	Form PTO-1449 Modified  List of Patent and Publications Cited by Applicant (Use several sheets if necessary)		Application No. 10/731,626	
Cite			et al.	
	rtment of Commerce d Trademark Office	Filing Date December 9, 2003	Group Not Yet Assigned	
		Confirmation No. Not Yet Assigned		
ОТН	IER DOCUMENTS (Incl	uding Author, Title, Dat	e, Pertinent Pages, Etc.)	
	spermidine/spermine N hepatic polyamines in	spermidine/spermine N1-acetyltransferase further accelerates the catabolism of hepatic polyamines in transgenic mice," <i>Biochem. J.</i> , <b>2001</b> , <i>358</i> , 343-348		
	Vujcic, S., et al., "Genomic identification and biochemical characterization of the mammalian polyamine oxidase involved in polyamine back-conversion," <i>Biochem. J.</i> , <b>2003</b> , <i>370</i> , 19-28			
	spermine oxidase of m	spermine oxidase of mammalian cell origin," Biochem. J., 2002, 367, 665-675		
	PAOh1/SMO," Bioche	em. Biophys. Res. Commu		
3	Wu, T., et al., "Cloning, sequencing, and heterologous expression of the murine peroxisomal flavoprotein, N1-acetylated polyamine oxidase," J. <i>Biol. Chem.</i> , June 2003, 278(23), 20514-20525			
EXAMINER		DATE CO	ONSIDERED	